

WE CLAIM:

1. An electrical connector comprising:
an insulative housing defining a plurality of terminal receiving channels, each terminal receiving channel having an inner face and at least a step portion protruding from the inner face; and
a plurality of conductive terminals each comprising a body portion comprising a shoulder and a recessed portion adjacent to the shoulder, both the shoulder and the recessed portion engaging with the step portion of the terminal receiving channel.
2. The electrical connector as described in claim 1, wherein each conductive terminal has a pair of spaced-apart legs extending from the body portion and adapted for mating with a complementary contact.
3. The electrical connector as described in claim 2, wherein each conductive terminal has a tail portion extending from the body portion along a direction away from the legs.
4. The electrical connector as described in claim 3, wherein the tail portion of each conductive terminal has a solder pad having a substantially circular-shaped cross section and a solder ball attached on the solder pad.
5. An electrical connector comprising:
an insulative housing defining a mating face, a mounting face opposite to the mating face, and a plurality of terminal receiving channels extending from the mating face to the mounting face, each channel having at least one deformable step portion formed on an inner face thereof; and
a plurality of conductive terminals each having a body portion of an elongate,

rectangular shape, the body portion comprising an upper portion and a lower portion, a width of the upper portion being bigger than a width of the lower portion thereby a shoulder being formed along a longwise direction and a recessed portion being formed under the shoulder, such that the shoulder press the step portion of the channel downwardly, which lead to the step portion being depressed and collapsed, during the insertion of the terminal from the mating face of the housing into the channel, and such that part of the step portion is pressed into the recessed portion of the terminal, thereby providing a permanently engaging force between the depressed step portion of the channel and the recessed portion of the terminal.

6. The electrical connector as described in claim 5, wherein each terminal comprises a pair of spaced-apart legs projecting from the body portion and extending beyond the mating face of the housing and adapted for mating with a complementary contact.

7. The electrical connector as described in claim 6, wherein each terminal has a tail portion extending from the body portion along a direction away from the spaced-apart legs.

8. The electrical connector as described in claim 7, wherein the tail portion of each terminal has a solder pad having a circular-shaped cross section and a solder ball attached on the solder pad.

9. An electrical connector comprising:

an insulative housing defining opposite first and second faces thereon and a plurality of terminal receiving channels extending therethrough, each of said terminal receiving channels defining first a first section and a second along a

lengthwise direction thereof, the first section being closer to the first face and the second section closer to the second face, the first section being wider than the second section; and

a plurality of terminals retainably disposed in the corresponding channels, respectively, each of said terminals including a first portion and a second portion along said lengthwise direction and respectively snugly received in the first section and the second section, the first portion being wider than the second portion, at least one recess formed around a joint portion between the first portion and the second portion; wherein

during assembling, the terminal is inserted into the corresponding channel along an insertion direction from the first face to the second face, and a joint section of the housing between the first section and the second section is either deformed or collapsed to be embedded within the recess for preventing movement of the terminal relative to the corresponding channel along said lengthwise direction.

10. The connector as described in claim 9, wherein deformation or collapse of said joint section results from movement of the first portion in said insertion direction.